

[illegible]

1. A vector that encodes a replication competent HIV-1 virus, said vector comprising an HIV-1 genome in which a region non-essential for viral replication has been replaced by a reporter gene.
2. The vector according to claim 1 wherein said reporter gene is selected from the group consisting of the renilla luciferase reporter gene, the SEAP reporter gene, the CAT gene, and the green fluorescence protein gene.
3. The vector according to claim 2 wherein said reporter gene is selected from the group consisting of the renilla luciferase reporter gene and the SEAP reporter gene.
4. The vector according to claims 1, 2 or 3 wherein the region non-essential for viral replication encodes the nef gene or a fragment of the nef gene.
5. The vector according to claims 1, 2 or 3 wherein the region non-essential for viral replication encodes the vpr gene or a fragment of the vpr gene.
6. The vector according to claims 1, 2 or 3 wherein the HIV-1 genome is the genome of the pNL4-3 proviral clone.
7. The vector according to claims 1, 2 or 3 wherein the HIV-1 genome is the genome of the pYU-2 proviral clone.
8. The vector according to claims 1, 2 or 3 wherein the HIV-1 genome is the genome of the p89.6 proviral clone.

10. A cell comprising the vector of claim 1,
2 or 3.

a) adding a test compound to mammalian cells infected or cells to be infected

b) comparing reporter gene activity in cells exposed to the test compound to the level of expression in control cells,

12. The method according to claim 8, wherein the mammalian cells are MT-2 #18 cells.

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14. The vector according to claim 13 wherein the renilla luciferase gene contains a cysteine to alanine substitution that results in a functional renilla luciferase enzyme.

a) adding a test compound to mammalian cells infected or cells that will be infected with the vector according to claim 13; and

b) comparing reporter gene activity in cells exposed to the test compound to the level of expression in control cells,

wherein a reduction in the level of reporter gene expression indicates the test compound inhibits HIV-1 replication.

23. The method according to claim 13, wherein the mammalian cells are MT-2 #18 cells.

Year	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	